50

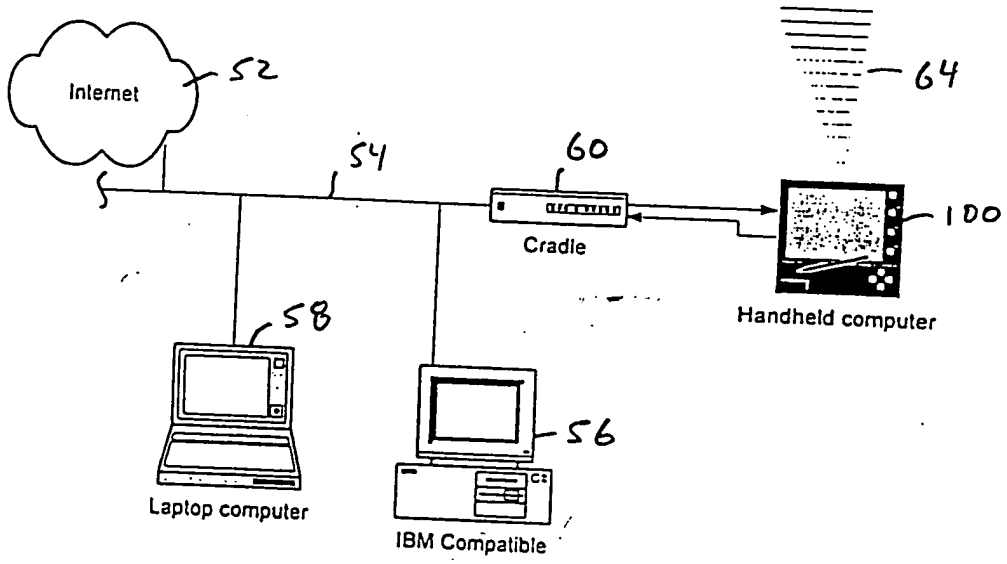
Internet
52
54
60
64
100
Cradle
Handheld computer
58
56
Laptop computer
IBM Compatible

FIG. 1

09926D "36262560

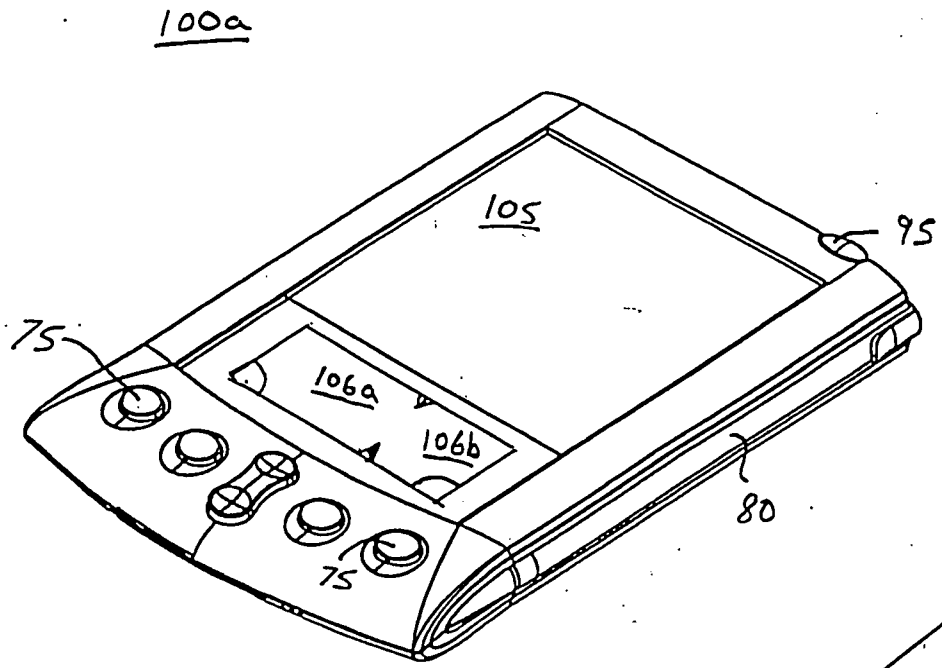

FIG. 2A

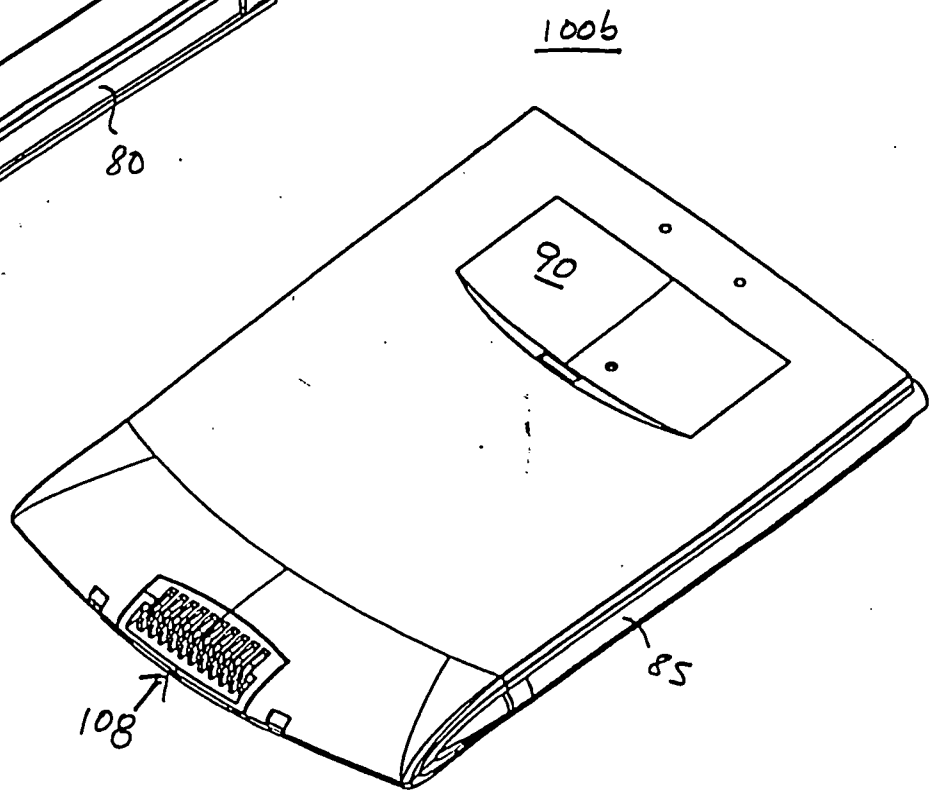

FIG. 2B

D09250 "3626560

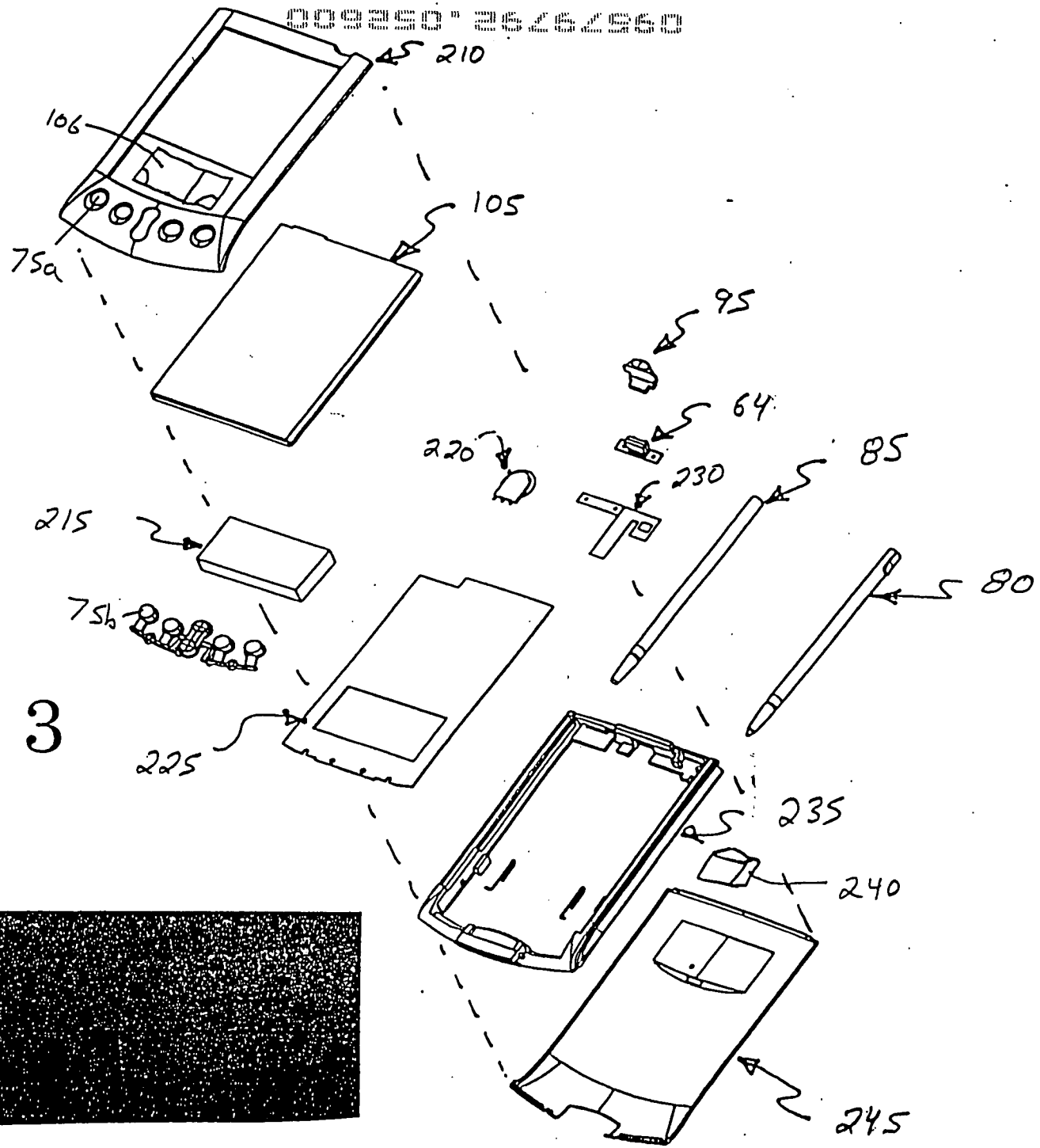

FIG. 3

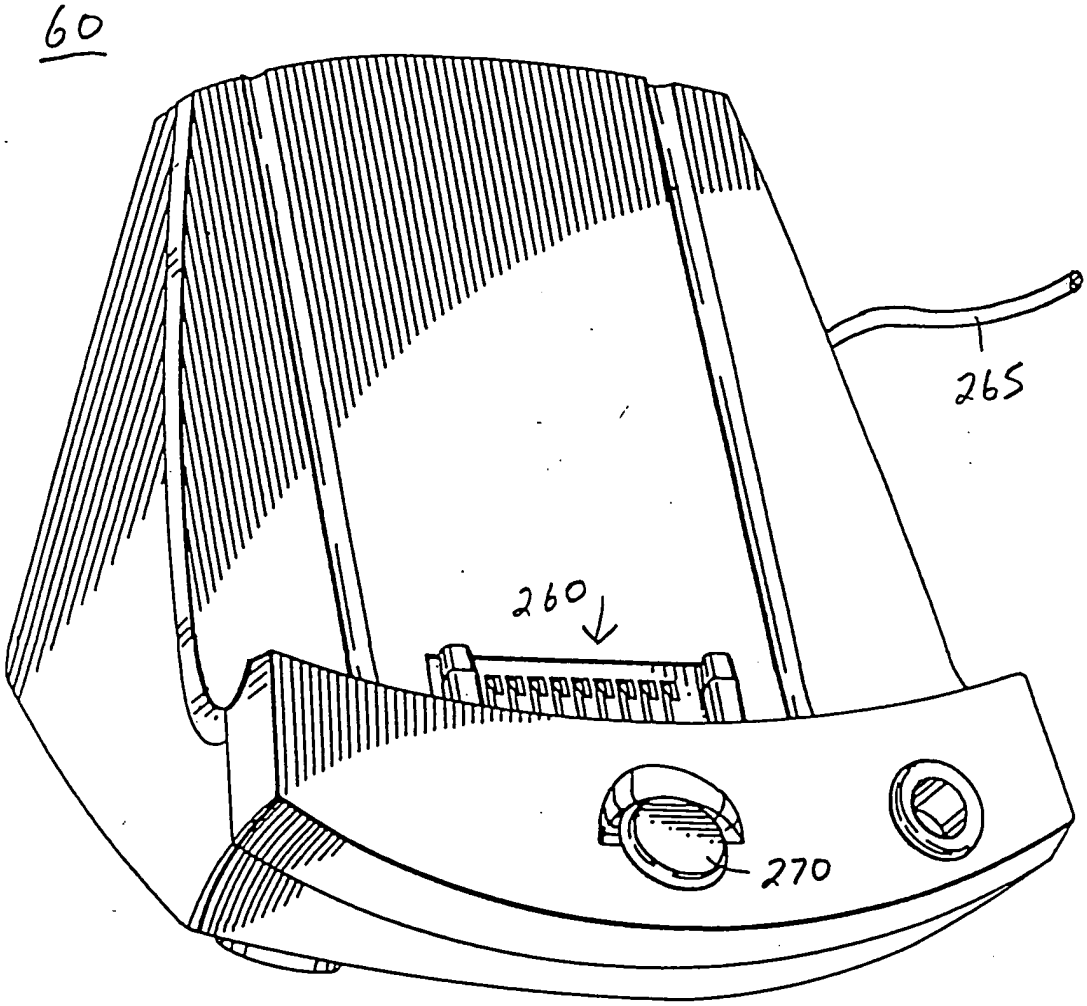

FIG. 4

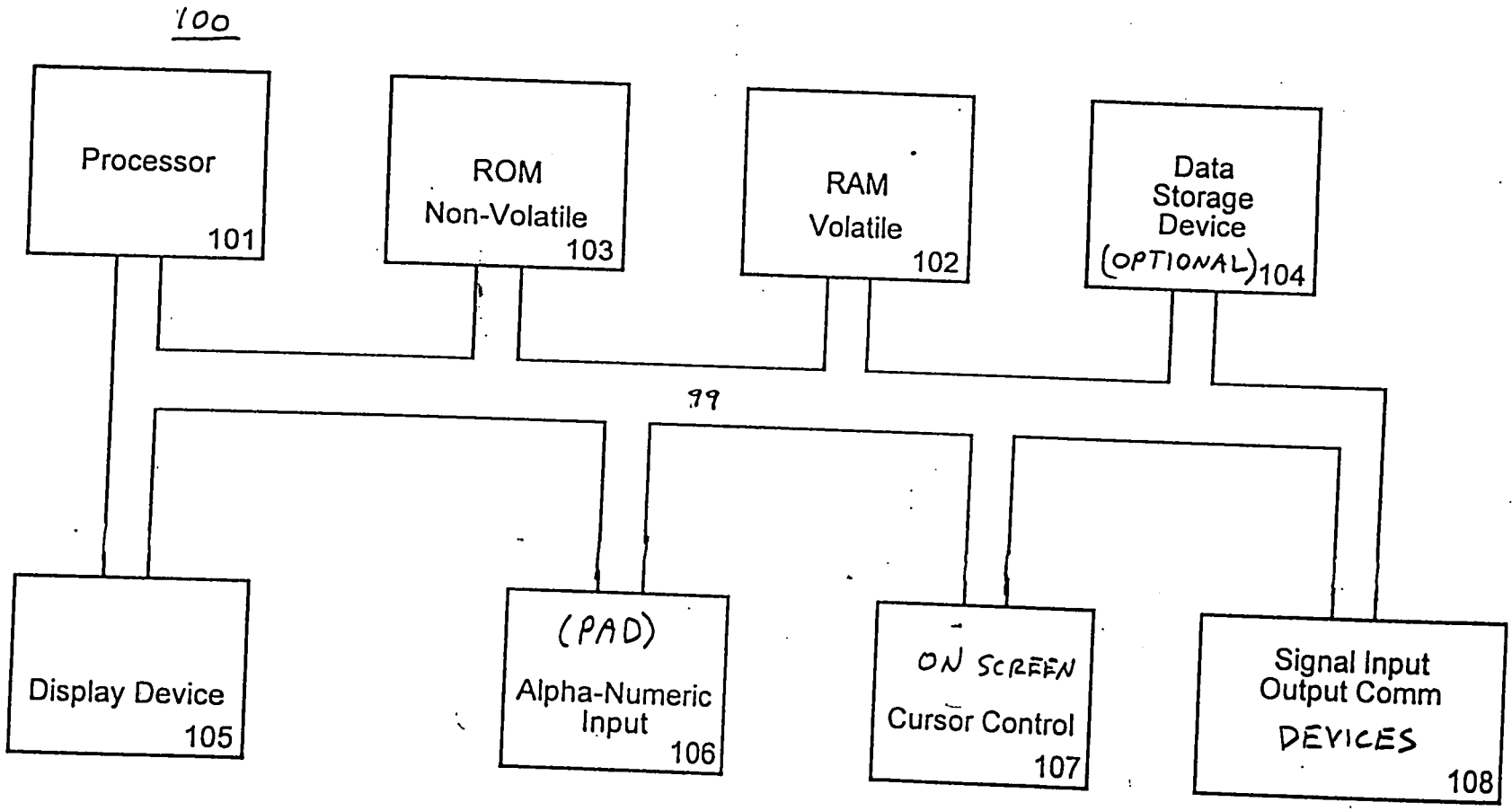

FIG. 5

09579792.032600

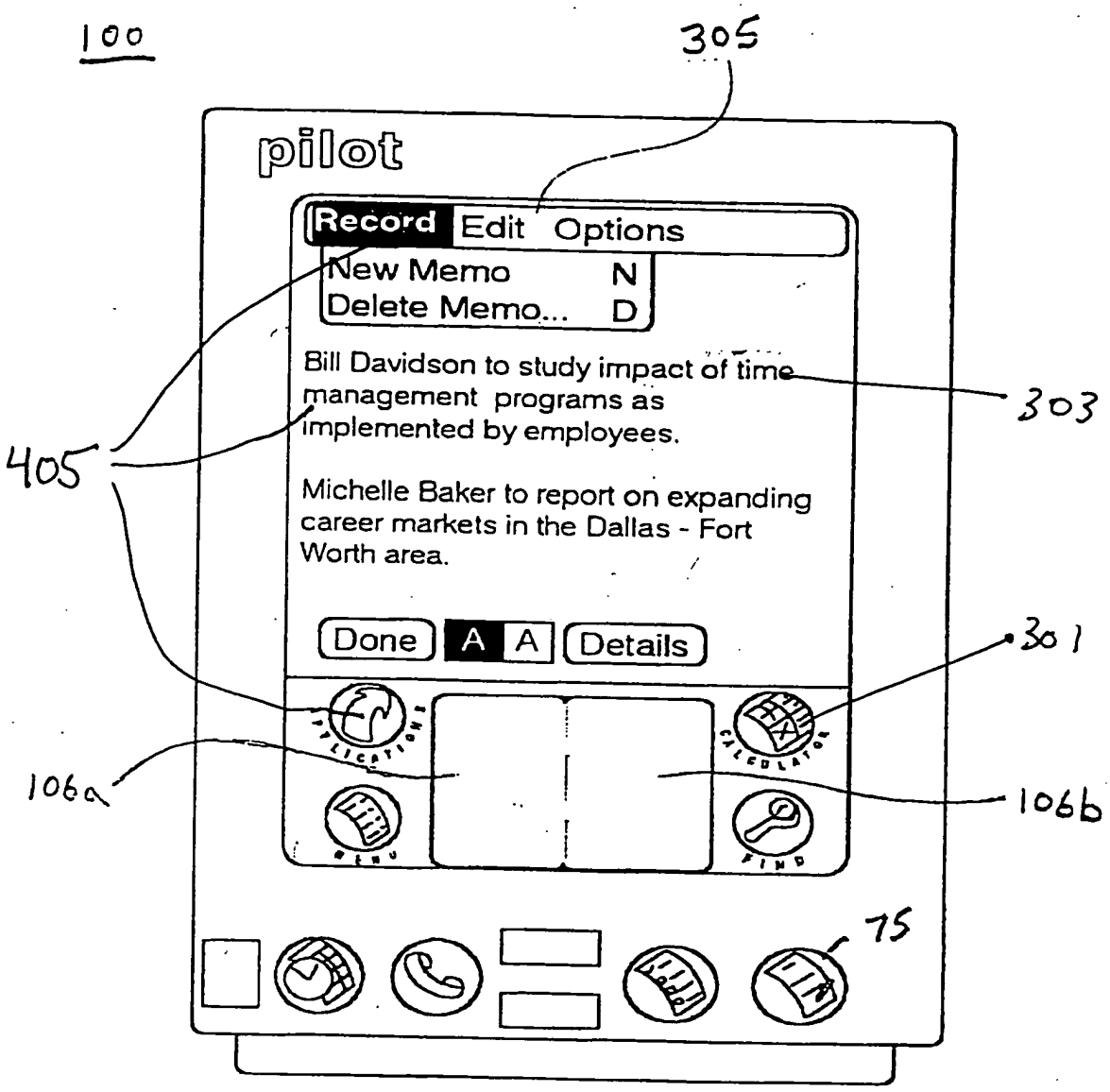
100
305
pilot
Record Edit Options
New Memo N
Delete Memo... D
Bill Davidson to study impact of time management programs as implemented by employees.
Michelle Baker to report on expanding career markets in the Dallas - Fort Worth area.
303
405
Done
A A
Details
301
106a
106b
75

FIG. 6

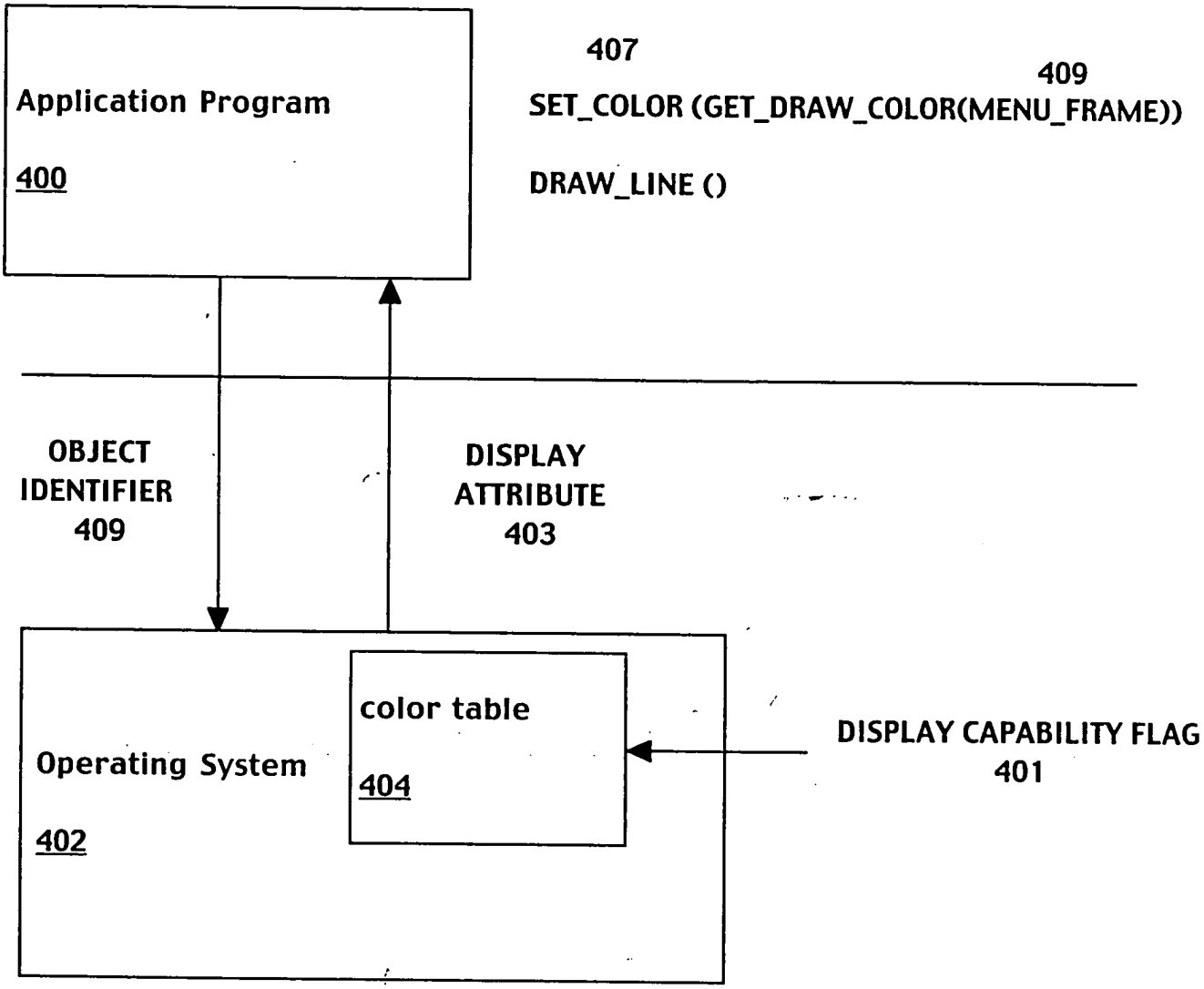
Application Program
400
407
409
SET_COLOR (GET_DRAW_COLOR(MENU_FRAME))
DRAW_LINE ()
OBJECT IDENTIFIER 409
DISPLAY ATTRIBUTE 403
Operating System
402
color table
404
DISPLAY CAPABILITY FLAG
401

FIGURE 7

color table 404 display attribute lists 450

object identifier list 406	1 bit or monochrome display attribute list 420	2 bit gray-scale display attribute list 422	4 bit gray-scale display attribute list 424	8 bit color display attribute list 426
Button Border 408	black	gray level 4	gray level 16	green
Menu Frame 410	black	gray level 1	gray level 1	red
Menu Fill 412	white	gray level 2	gray level 5	yellow
Menu Foreground 414	black	gray level 3	gray level 11	blue

FIGURE 8A

```
    UIObjectFrame,
    UIObjectFill,
    UIObjectForeground,
    UIObjectSelectedFill,
    UIObjectSelectedForeground,

409 → UIMenuFrame,
    → UIMenuFill,
    UIMenuForeground,
    UIMenuSelectedFill,
    UIMenuSelectedForeground,

    UIFieldBackground,
    UIFieldText,
    UIFieldTextLines,
    UIFieldCaret,
    UIFieldTextHighlightBackground,
    UIFieldTextHighlightForeground,
    UIFieldFepRawText,
    UIFieldFepRawBackground,
    UIFieldFepConvertedText,
    UIFieldFepConvertedBackground,
    UIFieldFepUnderline,

    UIFormFrame,
    UIFormFill,

    UIDialogFrame,
    UIDialogFill,

    UIAlertFrame,
    UIAlertFill,

    UIOK,
    UICaution,
    UIWarning,
```

406 ↑

Figure 8B

color table 404

display attribute lists 450

object identifier list 406	1 bit or monochrome display attribute list 420	2 bit gray-scale display attribute list 422	4 bit gray-scale display attribute list 424	8 bit color display attribute list 426	debug display attribute list 428
Button Border 408	black	gray level 4	gray level 16	green	red
Menu Frame 410	black	gray level 1	gray level 1	red	green
Menu Fill 412	white	gray level 2	gray level 5	yellow	purple
Menu Foreground 414	black	gray level 3	gray level 11	deep red	yellow

FIGURE 9

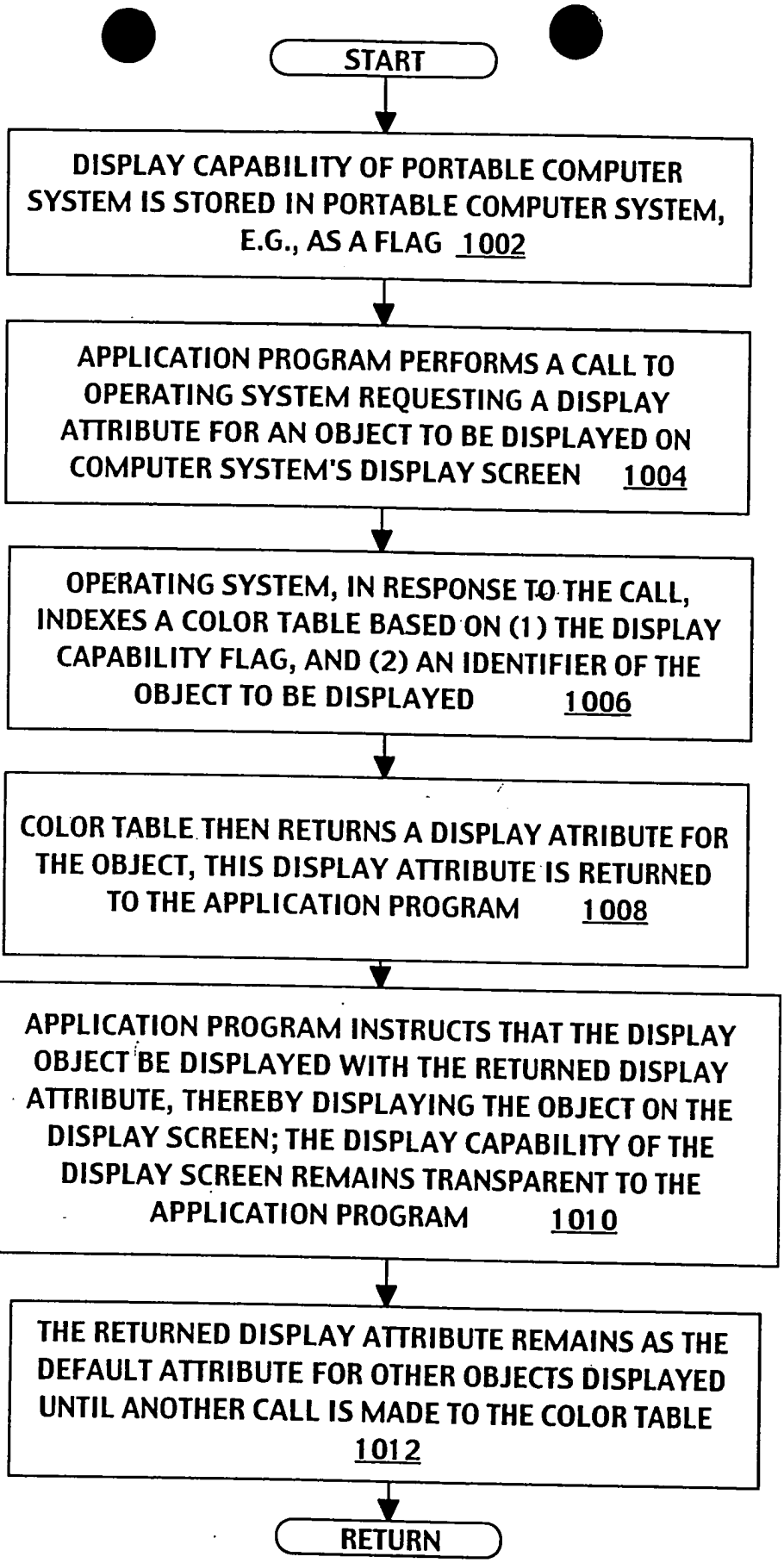
START
DISPLAY CAPABILITY OF PORTABLE COMPUTER SYSTEM IS STORED IN PORTABLE COMPUTER SYSTEM, E.G., AS A FLAG 1002
APPLICATION PROGRAM PERFORMS A CALL TO OPERATING SYSTEM REQUESTING A DISPLAY ATTRIBUTE FOR AN OBJECT TO BE DISPLAYED ON COMPUTER SYSTEM'S DISPLAY SCREEN 1004
OPERATING SYSTEM, IN RESPONSE TO THE CALL, INDEXES A COLOR TABLE BASED ON (1) THE DISPLAY CAPABILITY FLAG, AND (2) AN IDENTIFIER OF THE OBJECT TO BE DISPLAYED 1006
COLOR TABLE THEN RETURNS A DISPLAY ATRIBUTE FOR THE OBJECT, THIS DISPLAY ATTRIBUTE IS RETURNED TO THE APPLICATION PROGRAM 1008
APPLICATION PROGRAM INSTRUCTS THAT THE DISPLAY OBJECT BE DISPLAYED WITH THE RETURNED DISPLAY ATTRIBUTE, THEREBY DISPLAYING THE OBJECT ON THE DISPLAY SCREEN; THE DISPLAY CAPABILITY OF THE DISPLAY SCREEN REMAINS TRANSPARENT TO THE APPLICATION PROGRAM 1010
THE RETURNED DISPLAY ATTRIBUTE REMAINS AS THE DEFAULT ATTRIBUTE FOR OTHER OBJECTS DISPLAYED UNTIL ANOTHER CALL IS MADE TO THE COLOR TABLE 1012
RETURN

FIGURE 10

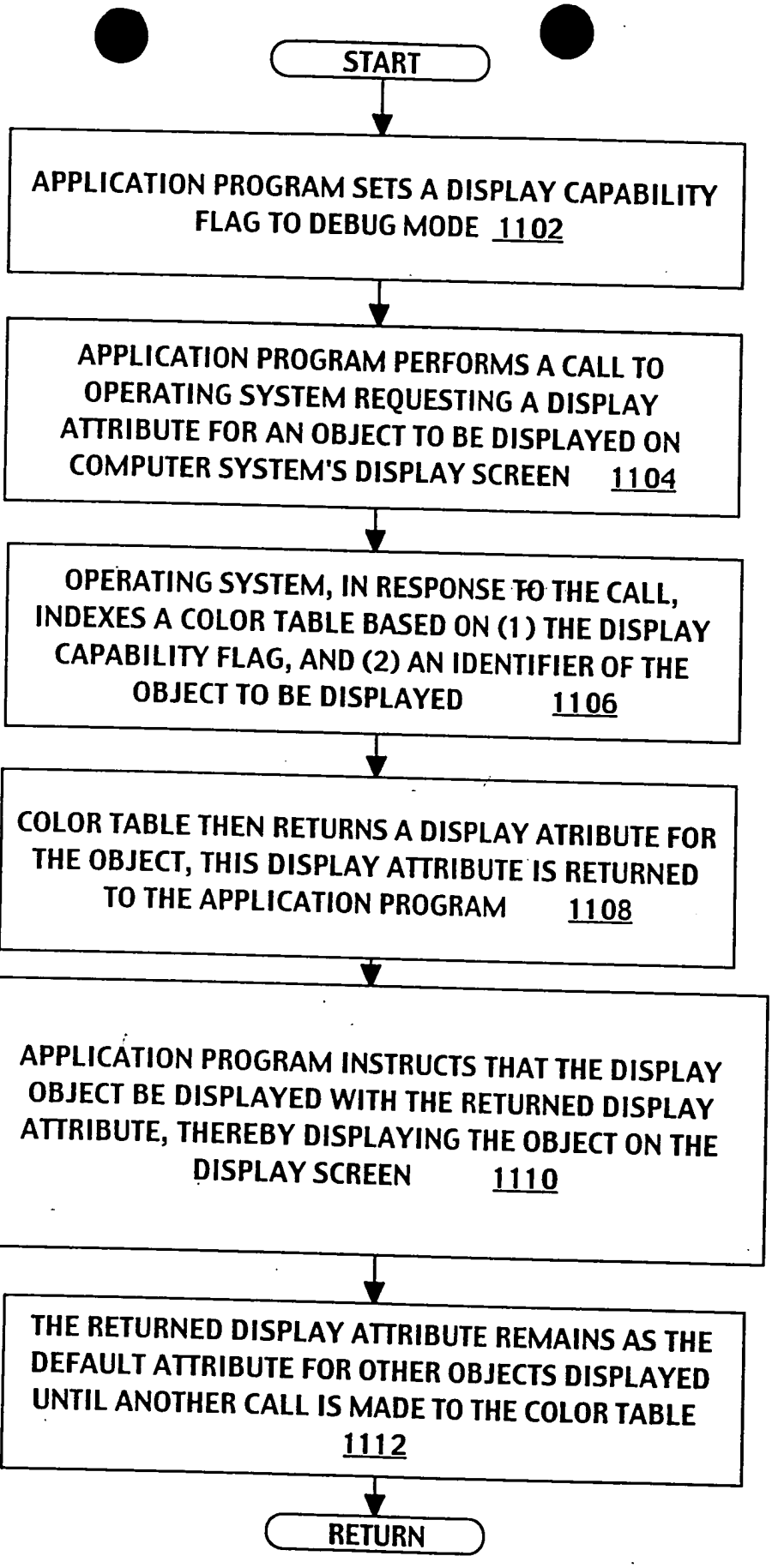
START
APPLICATION PROGRAM SETS A DISPLAY CAPABILITY FLAG TO DEBUG MODE 1102
APPLICATION PROGRAM PERFORMS A CALL TO OPERATING SYSTEM REQUESTING A DISPLAY ATTRIBUTE FOR AN OBJECT TO BE DISPLAYED ON COMPUTER SYSTEM'S DISPLAY SCREEN 1104
OPERATING SYSTEM, IN RESPONSE TO THE CALL, INDEXES A COLOR TABLE BASED ON (1) THE DISPLAY CAPABILITY FLAG, AND (2) AN IDENTIFIER OF THE OBJECT TO BE DISPLAYED 1106
COLOR TABLE THEN RETURNS A DISPLAY ATRIBUTE FOR THE OBJECT, THIS DISPLAY ATTRIBUTE IS RETURNED TO THE APPLICATION PROGRAM 1108
APPLICATION PROGRAM INSTRUCTS THAT THE DISPLAY OBJECT BE DISPLAYED WITH THE RETURNED DISPLAY ATTRIBUTE, THEREBY DISPLAYING THE OBJECT ON THE DISPLAY SCREEN 1110
THE RETURNED DISPLAY ATTRIBUTE REMAINS AS THE DEFAULT ATTRIBUTE FOR OTHER OBJECTS DISPLAYED UNTIL ANOTHER CALL IS MADE TO THE COLOR TABLE 1112
RETURN

FIGURE 11

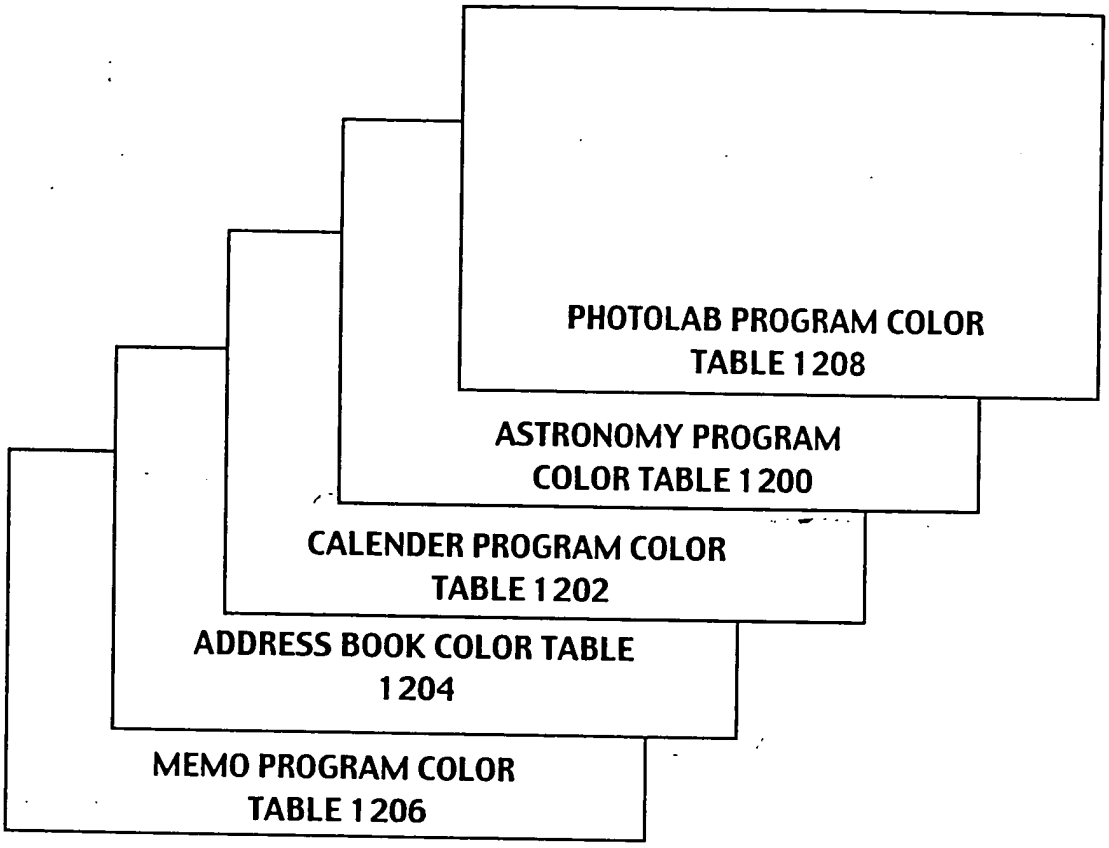
PHOTOLAB PROGRAM COLOR TABLE 1208
ASTRONOMY PROGRAM COLOR TABLE 1200
CALENDER PROGRAM COLOR TABLE 1202
ADDRESS BOOK COLOR TABLE 1204
MEMO PROGRAM COLOR TABLE 1206

FIGURE 12